

## North Dakota Crop Summary, 2004

### The Season In Review

Spring tillage and early planting progress for 2004 was generally ahead of both 2003 and the five-year average (1999-2003). Warm, dry April weather encouraged an average starting date for fieldwork of April 14, ahead of the average of April 22. Starting dates varied from April 4 in the southwest district to April 24 in the northeast district. The record early statewide starting date is April 6 set in 1981.

By the second week of April, planting of most crops had begun, ahead of the average. Planting and emergence for most crops stayed ahead of the average until late in May. Heavy rains and cool temperatures throughout the northern and eastern areas in late May slowed planting progress. Freezing temperatures damaged some emerged crops in mid-May. As of May 30, 91 percent of the spring wheat crop and 96 percent of the corn crop had been planted, ahead of the average pace. However, durum wheat was only 63 percent planted, 14 percentage points behind the average. Planting progress for most other crops neared completion, except for dry edible beans and sunflower which were only half complete.

Crop conditions during June were rated below the five-year average. Small grain conditions improved to near average during July, while late season crops remained below average. Widespread frost was reported over much of the state during the week ending August 22.

Small grain harvest conditions remained cool and damp most of August, September and October. By August 29, barley, spring wheat and durum wheat were only 57, 41 and 20 percent harvested, respectively, well behind 2003 and the average. Durum wheat harvest continued until early November and finished four weeks behind normal.

A killing frost blanketed the state during the first weekend of October and halted late season crop development. For the week ending October 3, only 17 percent of the corn was mature, compared to 90 percent on average. Soybeans were 85 percent mature with leaves dropping compared to 98 percent on average. Sunflower was 36 percent bracts turned brown compared to 84 percent on average.

Fall rains and crop maturity issues also slowed late season crop harvest. Dry edible beans, soybeans and flaxseed were nearly complete by November 14, about three weeks behind average. Corn and sunflower harvest continued into December after wet soils froze.

### Annual Crop Summary: Area Planted and Harvested North Dakota and United States, 2003 and 2004 <sup>1/</sup>

Crop	North Dakota				United States			
	Area Planted		Area Harvested		Area Planted		Area Harvested	
	2003	2004	2003	2004	2003	2004	2003	2004
Barley	1,000 Acres		1,000 Acres		1,000 Acres		1,000 Acres	
Corn for Grain <sup>2/</sup>	2,050	1,600	1,980	1,480	5,348	4,527	4,727	4,021
Corn for Silage	1,450	1,800	1,170	1,150	78,603	80,930	70,944	73,632
Hay, All			220	215			6,583	6,103
Alfalfa			2,950	2,730			63,383	61,916
All Other			1,600	1,300			23,529	21,707
Oats	620	490	360	220	4,597	4,085	2,220	1,792
Rye	18	25	15	20	1,348	1,380	319	320
Wheat, All	8,630	8,195	8,500	7,775	62,141	59,674	53,063	49,999
Winter	130	245	120	225	45,384	43,350	36,753	34,462
Durum	2,000	1,750	1,980	1,600	2,915	2,561	2,869	2,363
Other Spring	6,500	6,200	6,400	5,950	13,842	13,763	13,441	13,174
Canola	970	780	960	750	1,082	865	1,068	828
Flaxseed	560	490	555	485	595	523	588	516
Mustard Seed <sup>3/</sup>					110.0	73.0	107.0	68.7
Rapeseed <sup>3/</sup>					1.3	8.7	1.2	7.8
Safflower <sup>3/</sup>					222	175	213	159
Soybeans	3,150	3,750	3,050	3,570	73,404	75,208	72,476	73,958
Sunflower, All	1,210	880	1,165	790	2,344	1,873	2,197	1,711
Oil	1,060	720	1,020	660	1,998	1,533	1,874	1,424
Non-oil	150	160	145	130	346	340	323	287
Sugarbeets	259	256	255	246	1,365.4	1,345.9	1,347.8	1,306.9
Dry Edible Beans, All	540.0	560.0	520.0	475.0	1,406.1	1,354.3	1,346.9	1,219.3
Navy	75.0	81.0	71.0	67.0	158.2	185.1	150.9	162.5
Great Northern	8.0	2.5	7.8	2.3	109.4	51.1	103.8	46.8
Pinto	410.0	415.0	397.0	354.0	663.9	650.9	639.2	573.7
Dark Red Kidney	5.0	5.0	4.6	4.7	49.9	51.3	48.4	46.6
Pink	8.5	6.8	7.7	6.4	32.8	29.2	31.2	28.2
Small Red <sup>4/</sup>					33.2	33.2	32.8	31.9
Black	22.0	39.0	21.0	31.2	84.3	138.3	80.7	127.6
Chickpeas, All (Garbanzo)	5.0	3.5	4.7	2.9	43.5	45.0	41.4	43.4
Small	1.0	1.0	0.9	0.8	6.0	6.0	5.6	5.7
Large	4.0	2.5	3.8	2.1	37.5	39.0	35.8	37.7
Other	6.5	2.5	6.2	2.1	230.9	170.2	218.5	158.6
Dry Edible Peas	160	310	155	296	337.5	530.0	328.5	507.8
Lentils	55	100	54	94	246	345	237	329
Fall Potatoes, All	117.0	105.0	112.0	101.0	1,106.0	1,039.7	1,090.9	1,022.8
Irrigated <sup>5/ 6/</sup>	37.5	34.5	37.0	33.5				
Types, Reds <sup>6/</sup>	23.5	23.5	21.5	22.0				
Whites <sup>6/</sup>	45.5	37.5	43.5	36.0				
Russets <sup>6/</sup>	48.0	44.0	47.0	43.0				

1/ Data are latest estimates available. 2/ Area planted for all purposes. 3/ Published at U.S. level only. 4/ North Dakota estimates began 2004. Prior years included in other. 5/ Included in all potatoes. 6/ Published at state level only.

## North Dakota Crop Summary, 2004 (Continued)

The northern, central and eastern areas experienced wet soil conditions throughout much of the season, while the southwest was very dry. Statewide, topsoil moisture supplies were below average in April and May, followed by a near average pattern from June through August and then increased through the fall. By October 31, statewide topsoil moisture supplies were rated 79 percent adequate to surplus compared to the average of 60 percent.

### Acreage & Production Summary

Total planted area of principal crops in 2004, including hay harvested, was 22.2 million acres, a 3 percent decrease from 2003 and 6 percent from 2002. Harvested area totaled 20.5 million acres compared to 22.1 million acres in 2003. The drop in planted acres was due mostly to prevented plantings from heavy rains during late May and early June.

Corn and soybean production for 2004 fell 8 and 7 percent, respectively, from record highs set in 2003. Corn production fell due to decreased yields and lower harvested acres despite record high plantings. Reduced yields held soybean production down from 2003 despite record high harvested acreage.

Other spring wheat and durum wheat production were down 4 and 10 percent, respectively, from 2003. The drop in other spring wheat was due to a 7 percent drop in harvested acres despite having the second highest average yield since 1992's record high 42 bushel yield. The durum production decline was also due to low harvested acreage, the lowest since 1961 when 1.34 million acres were harvested. Production was also lower for oil sunflower and canola when compared to 2003. The decrease in oil sunflower was the result of lower harvested acres and yields while the drop in canola was due to decreased acreage despite record high yields.

Dry edible bean production dropped 39 percent from 2003's production and 55 percent from 2002's record high production. This was the lowest edible bean production since 1993 when 2.96 million hundredweight (cwt) was produced. The large drop was due to a large decrease in acres harvested and reduced yields from a cool, wet growing season and an early killing frost in August. Dry edible pea and lentil production both set record highs since records for North Dakota pea and lentil production were first started in 1998. Both dry edible peas and lentils had record high acreage while edible peas also had record high yields.

**Annual Crop Summary: Yield and Production  
North Dakota and United States, 2003 and 2004<sup>1/</sup>**

Crop	Unit	North Dakota				United States			
		Yield <sup>2/</sup>		Production		Yield <sup>2/</sup>		Production	
		2003	2004	2003	2004	2003	2004	2003	2004
--- 1,000 ---									
Barley	Bu	60.0	62.0	118,800	91,760	58.9	69.4	278,283	279,253
Corn for Grain	Bu	112	105	131,040	120,750	142.2	160.4	10,089,222	11,807,217
Corn for Silage	Tons	6.8	8.7	1,496	1,871	16.3	17.6	107,378	107,336
Hay, All	Tons	1.56	1.34	4,598	3,666	2.49	2.55	157,585	157,774
Alfalfa	Tons	1.65	1.50	2,640	1,950	3.24	3.47	76,273	75,383
All Other	Tons	1.45	1.20	1,958	1,716	2.04	2.05	81,312	82,391
Oats	Bu	59.0	64.0	21,240	14,080	65.0	64.7	144,383	115,935
Rye	Bu	50.0	39.0	750	780	27.1	26.9	8,634	8,615
Wheat, All	Bu	37.3	39.4	317,090	306,650	44.2	43.2	2,344,760	2,158,245
Winter	Bu	49.0	44.0	5,880	9,900	46.7	43.5	1,716,721	1,499,434
Durum	Bu	29.5	33.0	58,410	52,800	33.7	38.0	96,637	89,893
Other Spring	Bu	39.5	41.0	252,800	243,950	39.5	43.2	531,402	568,918
Canola	Lbs	1,410	1,630	1,353,600	1,222,500	1,416	1,618	1,512,250	1,339,530
Flaxseed	Bu	18.0	20.5	9,990	9,943	17.9	20.3	10,516	10,471
Mustard Seed <sup>3/</sup>	Lbs					723	819	77,372	56,290
Rapeseed <sup>3/</sup>	Lbs					949	1,394	1,139	10,875
Safflower <sup>3/</sup>	Lbs					1,290	1,105	274,755	175,765
Soybeans	Bu	29.0	23.0	88,450	82,110	33.9	42.5	2,453,665	3,140,996
Sunflower, All	Lbs	1,304	1,002	1,518,850	791,700	1,213	1,197	2,665,226	2,047,863
Oil	Lbs	1,300	1,040	1,326,000	686,400	1,206	1,237	2,259,666	1,761,628
Non-oil	Lbs	1,330	810	192,850	105,300	1,256	997	405,560	286,235
Sugarbeets	Tons	20.4	19.7	5,202	4,846	22.8	22.9	30,710	29,956
Dry Edible Beans, All <sup>4/</sup>	Cwt	1,500	1,000	7,800	4,750	1,670	1,460	22,492	17,799
Navy <sup>4/</sup>	Cwt	1,640	970	1,164	650	1,666	1,318	2,514	2,142
Great Northern <sup>4/</sup>	Cwt	1,760	1,260	137	29	2,135	2,032	2,216	951
Pinto <sup>4/</sup>	Cwt	1,480	1,010	5,864	3,561	1,635	1,362	10,453	7,814
Dark Red Kidney <sup>4/</sup>	Cwt	1,520	1,380	70	65	1,746	1,464	845	682
Pink <sup>4/</sup>	Cwt	1,690	1,220	130	78	1,962	1,844	612	520
Small Red <sup>4/ 5/</sup>	Cwt		1,230		54	1,771	1,884	581	601
Black <sup>4/</sup>	Cwt	1,320	800	277	250	1,565	1,466	1,263	1,870
Chickpeas, All (Garbanzo) <sup>4/</sup>	Cwt	1,570	1,450	74	42	1,007	1,366	417	593
Small <sup>4/</sup>	Cwt	1,560	1,000	14	8	1,071	1,333	60	76
Large <sup>4/</sup>	Cwt	1,580	1,620	60	34	997	1,371	357	517
Other <sup>4/</sup>	Cwt	1,350	1,000	84	21	1,643	1,656	3,591	2,626
Dry Edible Peas <sup>4/</sup>	Cwt	1,770	2,340	2,744	6,926	1,584	2,249	5,202	11,419
Lentils <sup>4/</sup>	Cwt	1,170	1,370	632	1,288	1,030	1,271	2,442	4,182
Fall Potatoes, All	Cwt	245	265	27,440	26,765	376	401	410,588	410,023
Irrigated <sup>6/ 7/</sup>	Cwt	363	380	13,415	12,730				
Types, Reds <sup>7/</sup>	Cwt	160	180	3,440	3,960				
Whites <sup>7/</sup>	Cwt	191	215	8,305	7,740				
Russets <sup>7/</sup>	Cwt	334	350	15,695	15,065				

<sup>1/</sup> Data are latest estimates available. <sup>2/</sup> Yield per harvested acre. <sup>3/</sup> Published at U.S. level only. <sup>4/</sup> Yield in pounds. <sup>5/</sup> North Dakota estimates began 2004. Prior years included in other. <sup>6/</sup> Included in all potatoes. <sup>7/</sup> Published at state level only.

## North Dakota Crops Summary, 2004 (Continued)

### Total Principal Crops: North Dakota, 1995-2004 <sup>1/</sup>

Year	Acreage		Value of Production	Value Per Harvested Acre
	Area Planted	Area Harvested		
--- 1,000 ---				
1995	21,085	20,478	1,000 Dollars	Dollars
1996	22,823	22,402	2,942,351	144.85
1997	23,003	21,833	3,314,076	148.86
1998	22,071	21,360	2,526,949	116.65
1999	20,550	19,177	2,688,166	126.59
2000	22,322	20,851	2,058,976	108.13
2001	21,238	20,299	2,381,394	114.98
2002	23,517	21,157	2,493,668	123.79
2003	22,831	22,111	2,878,238	137.21
2004	22,152	20,468	3,553,679	162.33
			2,972,380	146.76

*1/ Planted acres include acres harvested for hay. Acreages and value include unpublished data for miscellaneous crops and commercial vegetables. Value excludes corn for silage. 2004 value includes 2004 sugarbeet production multiplied by 2003 price.*



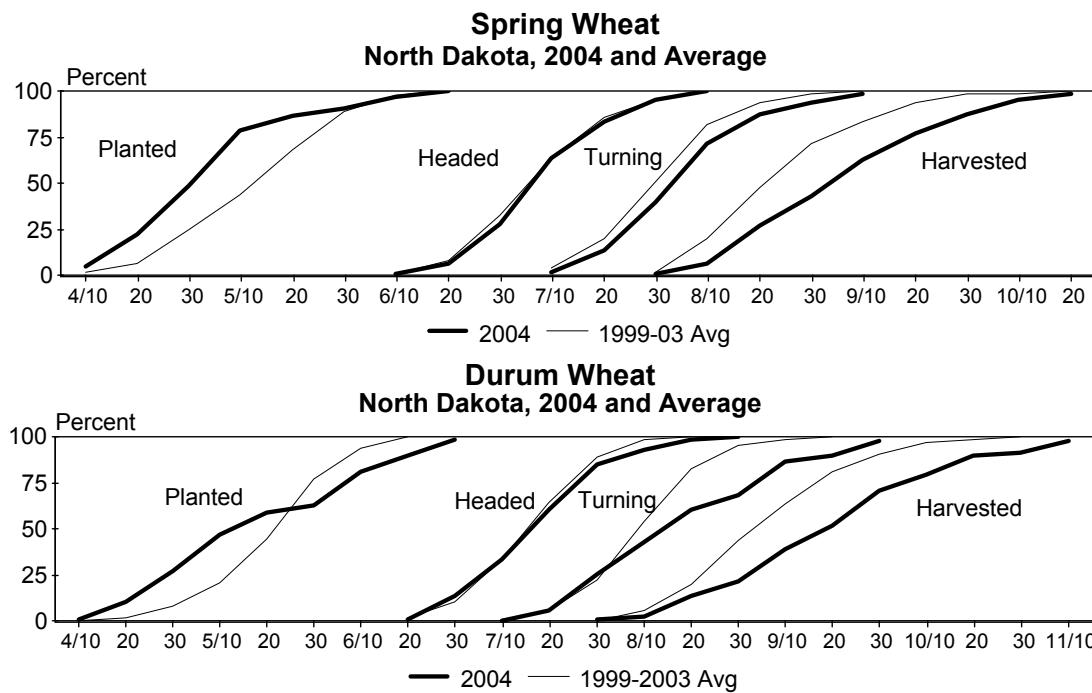
### Grain Storage Capacity: North Dakota, December 1, 1995-2004

Year	Off Farm Facilities	Capacity		
		Off Farm	On Farm	Total
Number				
1995	440	251,070	740,000	991,070
1996	438	250,850	740,000	990,850
1997	428	239,040	720,000	959,040
1998	420	245,430	740,000	985,430
1999	409	248,670	740,000	988,670
2000	394	244,370	710,000	954,370
2001	385	240,130	710,000	950,130
2002	379	240,650	710,000	950,650
2003	363	235,390	710,000	945,390
2004	350	256,050	730,000	986,050

**Principal Crops: Record Highs and Lows, North Dakota <sup>1/</sup>**

Crop	Unit	Record High		Record Low		Year Records Started
		Quantity	Year	Quantity	Year	
All Wheat	Planted Acres	12,680,000	1996	5,715,000	1962	1916
	Harvested Acres	12,515,000	1996	85,000	1879	1879
	Yield Bu	41.1	1992	4.5	1900	1879
	Production Bu	472,890,000	1992	1,742,000	1879	1879
Spring Wheat	Planted Acres	9,600,000	1996	3,812,000	1962	1926
	Harvested Acres	9,500,000	1996	2,438,000	1936	1919
	Yield Bu	42.0	1992	5.2	1936	1919
	Production Bu	382,200,000	1992	12,678,000	1936	1919
Durum Wheat	Planted Acres	5,051,000	1928	797,000	1958	1926
	Harvested Acres	5,000,000	1928	770,000	1958	1919
	Yield Bu	38.0	1992	3.5	1954	1919
	Production Bu	127,890,000	1981	4,235,000	1954	1919
Winter Wheat	Planted Acres	750,000	1985	25,000	1966	1964
	Harvested Acres	550,000	1984	24,000	1966	1964
	Yield Bu	49.0	2003	13.0	1988	1964
	Production Bu	22,000,000	1984	600,000	1966	1964
Barley	Planted Acres	4,147,000	1959	1,350,000	1999	1926
	Harvested Acres	3,918,000	1958	15,000	1882	1882
	Yield Bu	65.0	1992	5.0	1910	1882
	Production Bu	184,250,000	1985	382,000	1882	1882
Oats	Planted Acres	2,985,000	1970	<b>490,000</b>	<b>2004</b>	1926
	Harvested Acres	2,870,000	1917	57,000	1882	1882
	Yield Bu	70.0	1993	8.0	1910	1882
	Production Bu	153,624,000	1969	1,852,000	1882	1882
Rye	Planted Acres	2,310,000	1919	10,000	2002	1919
	Harvested Acres	2,100,000	1919	1,000	1888	1882
	Yield Bu	50.0	2003	4.5	1936	1882
	Production Bu	31,266,000	1922	10,000	1888	1882
Sunflower	Planted Acres	3,460,000	1979	13,000	1962	1962
	Harvested Acres	3,378,000	1979	12,500	1962	1962
	Yield Lbs	1,517	1998	600	1964	1962
	Production Lbs	4,584,600,000	1979	10,800,000	1964	1962
Canola	Planted Acres	1,300,000	2002	18,000	1991	1991
	Harvested Acres	1,285,000	2001	17,500	1991	1991
	Yield Lbs	<b>1,630</b>	<b>2004</b>	1,180	1997	1991
	Production Lbs	1,799,000,000	2001	24,500,000	1991	1991
Soybeans	Planted Acres	<b>3,750,000</b>	<b>2004</b>	7,000	1945	1942
	Harvested Acres	<b>3,570,000</b>	<b>2004</b>	4,000	1944	1942
	Yield Bu	35.0	1999	10.0	1947	1942
	Production Bu	88,450,000	2003	40,000	1942	1942
Flaxseed	Planted Acres	3,649,000	1957	80,000	1996	1920
	Harvested Acres	3,500,000	1956	35,000	1892	1889
	Yield Bu	21.0	2000	2.7	1936	1889
	Production Bu	28,700,000	1956	228,000	1889	1889
All Corn	Planted Acres	<b>1,800,000</b>	<b>2004</b>	495,000	1972	1929
Corn for Grain	Harvested Acres	1,170,000	2003	17,000	1934	1924
	Yield Bu	117.0	1999	8.4	1934	1924
	Production Bu	131,040,000	2003	143,000	1934	1924
Dry Edible Beans	Planted Acres	790,000	2002	21,000	1966	1964
	Harvested Acres	710,000	1998	20,000	1966	1964
	Yield Lbs	1,550	2001	600	1989	1964
	Production Cwt	10,626,000	2002	165,000	1964	1964
Dry Edible Peas	Planted Acres	<b>310,000</b>	<b>2004</b>	64,000	1999	1998
	Harvested Acres	<b>296,000</b>	<b>2004</b>	58,000	1999	1998
	Yield Lbs	<b>2,340</b>	<b>2004</b>	1,600	2002	1998
	Production Cwt	<b>6,926,000</b>	<b>2004</b>	1,102,000	1999	1998
Lentils	Planted Acres	<b>100,000</b>	<b>2004</b>	22,000	1998	1998
	Harvested Acres	<b>94,000</b>	<b>2004</b>	21,500	1998	1998
	Yield Lbs	1,550	1999	1,050	2002	1998
	Production Cwt	<b>1,288,000</b>	<b>2004</b>	267,000	1998	1998
Potatoes	Planted Acres	191,000	1943	73,000	1951	1929
	Harvested Acres	198,000	1922	2,000	1882	1882
	Yield Cwt	<b>265</b>	<b>2004</b>	20	1890	1882
	Production Cwt	30,030,000	1991	196,000	1882	1882
Sugarbeets	Planted Acres	265,000	2002	2,900	1924	1924
	Harvested Acres	258,000	2002	2,600	1924	1924
	Yield Tons	22.2	1998	4.9	1934	1924
	Production Tons	5,386,000	1998	24,500	1924	1924
All Hay	Harvested Acres	4,337,000	1961	2,102,000	1934	1909
	Yield Tons	2.09	2000	0.41	1934	1909
	Production Tons	6,285,000	1978	871,000	1934	1909

1/ In case of a tie, most recent year was used. Bold indicates new record.

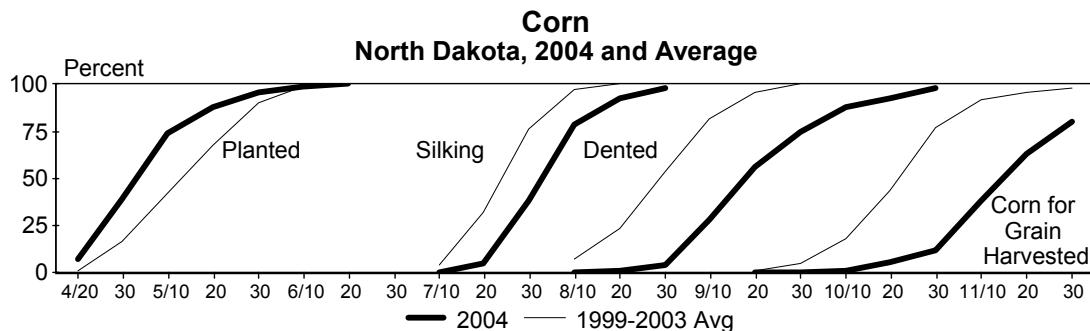
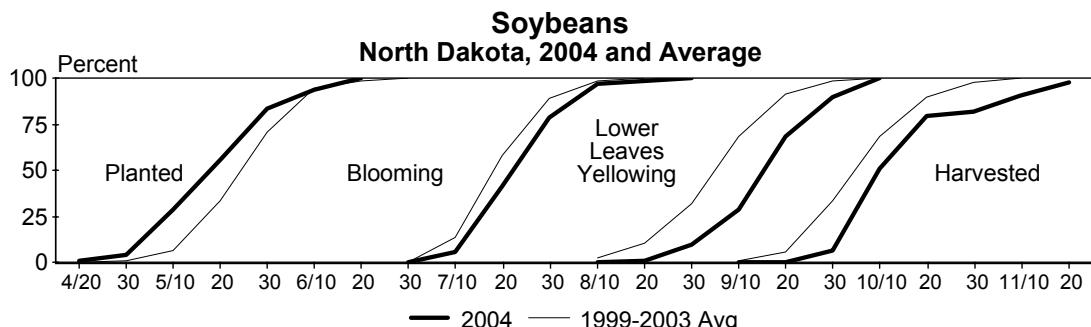
**Small Grain and Oilseed Crops: Planting and Harvesting Progress****Percent Planted: North Dakota, 2004, 2003 and 5-Year Average, 1999-2003**

Crop	Year	April			May			June	
		10	20	30	10	20	30	10	20
Spring Wheat	2004	5	23	49	79	87	91	97	100
	2003	6	15	42	55	73	92	100	
	Average	2	7	25	44	69	89	98	100
Durum Wheat	2004	1	11	27	47	59	63	81	90
	2003	1	4	16	27	48	83	97	100
	Average	2	8	21	45	77		94	100
Oats	2004	2	15	46	75	86	92	95	98
	2003	1	5	29	48	67	91	100	
	Average	1	3	19	41	68	89	98	100
Barley	2004	2	13	39	71	83	89	95	100
	2003	1	5	29	45	69	93	100	
	Average	3	16	33	63	88		97	100
Flaxseed	2004		2	15	42	63	74	86	96
	2003			8	18	47	81	96	99
	Average		5	21	51	83		95	100
Canola	2004	1	7	24	61	76	85	93	99
	2003		3	19	35	64	89	99	100
	Average		1	14	36	66	89	96	100

**Percent Harvested: North Dakota, 2004, 2003 and 5-Year Average, 1999-2003**

Crop	Year	July		August		September		October	
		30	10	20	30	10	20	30	10
Spring Wheat	2004	1	7	27	43	63	77	88	96
	2003	4	21	63	89	98	100		99
	Average	2	20	48	72	84	94	99	99
Durum Wheat	2004	1	3	14	22	39	52	71	80
	2003	1	9	36	77	94	100		90
	Average	6	20	44	64	81	91		97
Oats	2004	3	20	42	64	80	86	94	98
	2003	5	28	66	92	99	100		100
	Average	4	28	58	81	91	97	99	100
Barley	2004	1	13	37	59	82	92	96	100
	2003	9	38	79	96	100			
	Average	4	25	54	80	89	97	99	100
Flaxseed	2004			3	9	22	34	55	79
	2003			2	16	82	93	99	100
	Average			2	11	54	75	88	96
Canola	2004			1	9	18	35	55	94
	2003			9	39	72	93	99	98
	Average			5	24	51	73	89	99
									100

## Row Crops: Planting and Harvesting Progress



**Percent Planted: North Dakota, 2004, 2003 and 5-Year Average, 1999-2003**

Crop	Year	April		May			June	
		20	30	10	20	30	10	20
Corn	2004	7	39	74	88	96	99	100
Corn	2003	2	31	57	73	92	100	
Corn	Average	1	17	42	68	90	99	100
Soybeans	2004	1	4	29	56	84	94	100
Soybeans	2003	3	10	10	27	72	96	100
Soybeans	Average	1	7	34	71		95	99
Dry Edible Beans	2004		1	4	16	49	80	97
Dry Edible Beans	2003			1	10	53	92	99
Dry Edible Beans	Average			1	16	58	93	100
Potatoes	2004	3	12	45	63	84	94	100
Potatoes	2003	2	14	26	49	79	95	100
Potatoes	Average	2	11	32	59	86	98	100
Sunflower	2004		1	5	18	50	80	95
Sunflower	2003			2	15	55	88	98
Sunflower	Average			1	13	51	88	99
Sugarbeets	2004	23	73	99	100			
Sugarbeets	2003	8	51	83	93	99	100	
Sugarbeets	Average	6	40	66	85	97	100	

**Percent Harvested: North Dakota, 2004, 2003 and 5-Year Average, 1999-2003**

Crop	Year	August	September			October			November		
		30	10	20	30	10	20	30	10	20	30
Corn	2004					1	6	12	38	63	80
Corn	2003					28	68	91	98	100	
Corn	Average			1	5	18	44	77	92	96	98
Soybeans	2004				7	51	80	82	91	98	
Soybeans	2003		1	5	36	79	97	100			
Soybeans	Average		1	6	34	69	90	98	100		
Dry Edible Beans	2004			1	14	63	82	85	93	100	
Dry Edible Beans	2003	3	32	58	80	96	99	100			
Dry Edible Beans	Average	2	14	41	69	89	97	99	100		
Potatoes	2004		10	26	55	89	94	99	100		
Potatoes	2003	4	12	33	64	90	99	100			
Potatoes	Average	3	11	33	65	91	99				
Sunflower	2004				5	2	10	14	52	83	94
Sunflower	2003				2	26	66	92	98	100	
Sunflower	Average				16	43	73	89	93	97	
Sugarbeets	2004			4	17	56	93	97	99		
Sugarbeets	2003		4	8	25	72	99	100			
Sugarbeets	Average		3	6	17	75	99	100			